=> dup rem l1

PROCESSING COMPLETED FOR L1

L2 10 DUP REM L1 (1 DUPLICATE REMOVED)

=> s 12 and human

L3 7 L2 AND HUMAN

=> d 13 1-7 ibib ab

L3 ANSWER 1 OF 7 MEDLINE on STN

ACCESSION NUMBER: 2002376869 MEDLINE DOCUMENT NUMBER: PubMed ID: 12071709

TITLE: Refolding and purification of recombinant human

PDE7A expressed in Escherichia coli as inclusion bodies.
AUTHOR: Richter Wito; Hermsdorf Thomas; Kronbach Thomas; Dettmer

Dietrich

CORPORATE SOURCE: Institute of Biochemistry, Medical Faculty, Institute of

Biochemistry, University of Leipzig, Liebigstrasse 16,

Leipzig, Germany.

SOURCE: Protein expression and purification, (2002 Jun) Vol. 25,

No. 1, pp. 138-48.

Journal code: 9101496. ISSN: 1046-5928.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200212

ENTRY DATE: Entered STN: 20020719

Last Updated on STN: 20021228 Entered Medline: 20021227

AB We have investigated the refolding and purification of the catalytic domain of human 3',5'-cyclic nucleotide phosphodiesterase 7A1 (PDE7A1) expressed in Escherichia coli. A cDNA encoding an N-terminal-truncated PDE7A1(147-482-His) was amplified by RT-PCR from human peripheral blood cells and inserted into the vector pET21-C for bacterial expression of the enzyme fused to a C-terminal His-tag. The PDE was found to be expressed in the form of inclusion bodies which could be refolded to an active enzyme in buffer containing high concentrations of arginine hydrochloride, ethylene glycol, and magnesium chloride at pH The PDE7A1(147-482-His) construct could be purified after dialysis and concentration steps by either Zn2+-IDA-Sepharose chromatography or ResourceQ ion-exchange chromatography to homogeneity. In comparison to the metal-chelate column, the ResourceQ purification resulted in a distinctly better yield and enrichment of the protein. Both the Vmax (0.46 micromol. min(-1). mg(-1)) and the K(m) (0.1 microM) of the purified enzyme were found to be comparable with published data for native or recombinant catalytically active expressed PDE7A1. Using SDS/PAGE, a molecular mass of 39 kDa was determined (theoretical value 38.783 kDa). As known from several other mammalian PDEs, size-exclusion chromatography using refolded PDE7A1(147-482-His) indicated the formation of dimers. purified enzyme was soluble at concentrations up to 100 microg/ml. A further increase of protein concentration resulted, however, in precipitation of the enzyme. Copyright 2002 Elsevier Science (USA).

L3 ANSWER 2 OF 7 MEDLINE on STN ACCESSION NUMBER: 1998176136 MEDLINE DOCUMENT NUMBER: PubMed ID: 9515162

TITLE: Differential distribution of rat PDE-7

mRNA in embryonic and adult rat brain.

AUTHOR: Hoffmann R; Abdel'Al S; Engels P CORPORATE SOURCE: Novartis Pharma, Basel, Switzerland. SOURCE: Cell biochemistry and biophysics, (1998) Vol. 28, No. 2-3,

pp. 103-13.

Journal code: 9701934. ISSN: 1085-9195.

PUB. COUNTRY:

United States

DOCUMENT TYPE:

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

English

FILE SEGMENT: OTHER SOURCE: Priority Journals
GENBANK-U77880

ENTRY MONTH:

199804

ENTRY DATE:

Entered STN: 19980422

Last Updated on STN: 19980422 Entered Medline: 19980416

AB Currently not much is known about the distribution and function of the phosphodiesterase type 7 (PDE-7) enzyme. Therefore,

we carried out an extensive distribution analysis of the rat and human PDE-7 by in situ hybridization as well

as RT-PCR. We isolated a partial rat cDNA clone that is highly homologous to the sequence of the human PDE-7 gene.

RT-PCR tissue distribution analyses revealed expression of the mRNA of the human and rat-enzymes in most of the examined tissues, like adult heart, lung, brain, and liver, as well as in several cell lines of the immune system. In situ hybridization with the rat PDE-7 showed a differential expression pattern during the late phases of the developing rat brain with higher levels of mRNA in cortical and telencephalic structures in d 16, 18, and 20 embryonic stages, whereas in adult rat brain, higher amounts of mRNA could only be detected in cerebellum and, to a lesser extent, in hippocampus and the olfactory system.

L3 ANSWER 3 OF 7 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2006:77265 HCAPLUS

DOCUMENT NUMBER:

144:148374

TITLE:

Diagnosis of pulmonary arterial hypertension and monitoring of therapy using gene expression analysis

of peripheral blood cells

INVENTOR(S):

Geraci, Mark W.; Bull, Todd M.; Voelkel, Norbert F.;

Coldren, Christopher D.

PATENT ASSIGNEE(S):

The Regents of the University of Colorado, USA

SOURCE:

U.S. Pat. Appl. Publ., 38 pp. CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

US 2006019272 A1 20060126 US 2005-122329 20050503

PRIORITY APPLN. INFO.: US 2004-568129P P 20040503

AB Disclosed are methods to diagnose a patient that has a pulmonary disease, and particularly, pulmonary arterial hypertension, using biomarkers that are differentially regulated in the peripheral blood cells of patients with such disease as compared to individuals that do not have the disease. Also disclosed are methods to diagnose a patient that has idiopathic pulmonary arterial hypertension as compared to pulmonary arterial hypertension assocd. with secondary causes. Pluralities of nucleotides and antibodies useful in the invention are described. Methods of identifying compds. with the potential to treat pulmonary arterial hypertension (PAH) are also described.

L3 ANSWER 4 OF 7 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:1242962 HCAPLUS

DOCUMENT NUMBER:

144:21256

TITLE:

Gene expression profiles in the diagnosis of pancreatic cancer and its metastasis and

identification of target for therapy

INVENTOR(S): Nakamura, Yusuke; Katagiri, Toyomasa; Nakagawa,

Hidewaki

PATENT ASSIGNEE(S): Oncotherapy Science, Inc., Japan; The University of

Tokyo

SOURCE: U.S. Pat. Appl. Publ., 116 pp., Cont.-in-part of

PCT/JP03/11817.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 6

PATENT INFORMATION:

PAT	ENT I	NO.			KINI	D :	DATE		i	APPL	ICAT:	ION I	NO.		Di	ATE	
	2005				A1		2005				005-		-		2	0050	324
WO	2004	0314	12		A2		2004	0415	1	WO 2	003-i	JP11	817		20	0030	917
WO	2004	0314	12		A3	:	2004	0715									
	W:	ΑE,	AG,	AL,	AM,	AT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,
		CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,	GE,
		GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KR,	KZ,	LC,	LK,	LR,
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NI,	NO,	NZ,	OM,
		PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,	TJ,	TM,	TN,
		TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW			•
	RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	AZ,	BY,
		KG,	KZ,	MD,	RU,	TJ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,
		FI,	FR,	GB,	GR,	HU,	IE,	IT,	LU,	MC,	NL,	PT,	RO,	SE,	SI,	SK,	TR,
		BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG
PRIORITY	APP	LN.	INFO	. :	•		•			US 2	002-4	1148	72P		2 (0020	930
									1	US 2	003-4	4508	89P]	2 (00302	228
									1	WO 2	ງ 03 - ເ	JP11	817	2	A2 20	00309	917
									1	US 2	004-9	5558	09P	1	2 (040	324

AB Objective methods for detecting and diagnosing pancreatic cancer (PNC) are described herein. In one embodiment, the diagnostic method involves detg. the expression level of PNC-assocd. gene that discriminates between PNC cells and normal cells. The present invention further provides methods of screening for therapeutic agents useful in the treatment of pancreatic cancer, methods of treating pancreatic cancer and method of vaccinating a subject against pancreatic cancer.

L3 ANSWER 5 OF 7 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:713955 HCAPLUS

DOCUMENT NUMBER: 143:187909

TITLE: Methods of using databases to create gene-expression

microarrays, equine and canine microarrays created

thereby, and uses of the microarrays

INVENTOR(S): Bertone, Alicia; Gu, Weisong PATENT ASSIGNEE(S): The Ohio State University, USA

SOURCE: PCT Int. Appl., 1475 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PAT	CENT :	NO.			KIN	D :	DATE			APPL	ICAT	ION I	NO.		D	ATE	
						_									_		
WO	2005	0676	49		A2		2005	0728	1	WO 2	005-2	XA51	7		2	0050	107
	W:	ΑE,	AG,	AL,	AM,	ΑT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,
		CN,	co,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	KP,	KR,	KZ,	LC,
		LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA,	NI,
		NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,
		ТJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UΖ,	VC,	VN,	YU,	ZA,	ZM,	ZW
	RW:	BW,	GH,	GM,	KE.	LS.	MW.	MZ.	NA.	SD.	SL.	SZ.	TZ.	UG.	ZM.	ZW.	AM.

```
AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
             EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
             RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
             MR, NE, SN, TD, TG
                                20050728
     WO 2005067649
                         A2
                                           WO 2005-US517
            AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
         W:
             CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
             GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
             LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
             NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
             TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
             AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
             EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
             RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
            MR, NE, SN, TD, TG
PRIORITY APPLN. INFO.:
                                            US 2004-535111P
                                                                P 20040108
                                            WO 2005-US517
                                                                A 20050107
```

Methods of prepg. biol. databases, and databases prepd. according to those AR methods. The methods can be performed entirely using computer resources, relying solely on publicly available biol. sequence information, and can be used to generate species-specific nucleic acid microarrays. The approach involves two major steps: identification of the 3' coding domains (CDSs) and 3' expressed sequence tags (ESTs) in public domain sequence databases and subsequent annotation of the sequences. For the algorithm using 20,022 equine sequences in GenBank (June, 2003), the 3' equine CDSs are identified by selecting the full and partial CDSs that have a stop codon at the 3' end. This approach ensures that sequences selected are anchored to the 3' end; most contain the 3' untranslated region (UTR), which is more species-specific, compared with the coding region. Use of the UTR sequence in probe design is an asset for improvement of microarray accuracy. An algorithm analyzes the partial equine CDSs and ESTs with those in a human-mouse CDS database (a subset of the GenBank nonredundant database) in order to provide annotation to the selected 3' equine sequences. A total of 3099 equine 3' coding sequences and 3' ESTs are selected for the equine-specific gene expression array, and 68,266 oligonucleotide probes designed according to Affymetrix's chip design Microarray anal. identified genes expressed in equine synoviocytes in the absence and presence of lipopolysaccharide, as well as differentially expressed genes in developmental orthopedic disease (osteochondrosis desiccans and cervical vertebral malformation), equine osteoarthritis, equine protozoal myelitis, herpes virus-1 infection, potentially compromising stress, and laminitis in horses. Analogous methods are used to generate a canine-specific microarray to detect gene expression during osteoarthritis in dogs. [This abstr. record is one of two records for this document necessitated by the large no. of index entries required to fully index the document and publication system constraints.].

```
L3 ANSWER 6 OF 7 HCAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 2003:577303 HCAPLUS DOCUMENT NUMBER: 139:256159
```

TITLE: Functional characterization of the human

phosphodiesterase 7A1 promoter

AUTHOR(S): Torras-Llort, Monica; Azorin, Fernando

CORPORATE SOURCE: Institut de Biologia Molecular de Barcelona,

Departament de Biologia Molecular i Cellular, CSIC,

Barcelona, 08034, Spain

SOURCE: Biochemical Journal (2003), 373(3), 835-843

CODEN: BIJOAK; ISSN: 0264-6021

PUBLISHER: Portland Press Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

AB In this paper, the human phosphodiesterase 7A1 (h PDE7A1) promoter region was identified and functionally characterized. Transient

transfection expts. indicated that a 2.9 kb fragment of the h PDE7A1 5'-flanking region, to position -2907, has strong promoter activity in Jurkat T-cells. Deletion anal. showed that the proximal region, up to position -988, contains major cis -regulatory elements of the h PDE7Al promoter. This minimal promoter region contains a regulatory CpG island which is essential for promoter activity. The CpG island contains three potential cAMP-response-element-binding protein (CREB)-binding sites that, as judged by in vivo di-Me sulfate (DMS) footprinting, are occupied in Jurkat T-cells. Moreover, over-expression of CREB results in increased promoter activity, but, on the other hand, promoter activity decreases when a dominant-neq. form of CREB (KCREB) is over-expressed. In vivo DMS footprinting strongly indicates that other transcription factors, such Ets-2, nuclear factor of activated T-cells 1 (NFAT-1) and nuclear factor .kappa.B (NF-.kappa.B), might also contribute to the regulation of h PDE7A1 promoter. Finally, h PDE7A1 promoter was found to be induced by treatment with PMA, but not by treatment with dibutyryl cAMP or forskolin. These results provide insights into the factors and mechanisms that regulate expression of the h PDE7A gene.

REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 7 OF 7 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

ACCESSION NUMBER: 2005:90160 BIOSIS DOCUMENT NUMBER: PREV200500084701

TITLE: Discovery of BRL 50481 (3-(N,N-dimethylsulfonamido)-4-

methyl-nitrobenzene), a selective inhibitor of phosphodiesterase 7: In vitro studies in human monocytes, lung macrophages, and CD8+

T-lymphocytes.

AUTHOR(S): Smith, Susan J.; Cieslinski, Lenora B.; Newton, Robert;

Donnelly, Louise E.; Fenwick, Peter S.; Nicholson, Andrew G.; Barnes, Peter J.; Barnette, Mary S.; Giembycz, Mark A.

[Reprint Author]

CORPORATE SOURCE: Dept Pharmacol and TherapeutResp Res Grp, Univ Calgary,

3330 Hosp Dr NW, Calgary, AB, T2N 4N1, Canada

giembycz@ucalgary.ca

SOURCE: Molecular Pharmacology, (December 2004) Vol. 66, No. 6, pp.

1679-1689. print.

ISSN: 0026-895X (ISSN print).

DOCUMENT TYPE: Article LANGUAGE: English

ENTRY DATE: Entered STN: 2 Mar 2005

Last Updated on STN: 2 Mar 2005

AB The biochemical and pharmacological characteristics in human proinflammatory cells of BRL 50481 (3-(N, N-dimethylsulfonamido)-4methyl-nitrobenzene), a novel and selective inhibitor of phosphodiesterase (PDE) 7, are described. BRL 50481 inhibited the activity of hrPDE7A1 expressed in baculovirus-infected Spodoptera frugiperda 9 cells in a competitive manner (Ki value of 180 nM) and was 416 and 1884 times less potent against PDE3 and 38 and 238 times less potent against PDE4 at a substrate concentration of 1 muM and 50 nM cAMP, respectively. Western blotting identified HSPDE7A1 but not HSPDE7A2 in three human cell types that are implicated in the pathogenesis of chronic obstructive lung disease, namely, CD8+ T-lymphocytes, monocytes, and lung macrophages. BRL 50481 had no effect on the proliferation of CD8+ T-lymphocytes and only marginally (apprx 2 - 11%) reduced the generation of tumor necrosis factor (TNF)alpha from blood monocytes and lung macrophages. However, in the presence of BRL 50481 the inhibitory effect of rolipram was enhanced on all three cell types. expression of HSPDE7A1 was increased in a time-dependent manner in monocytes that were "aged" in culture medium. Under this condition, BRL 50481 now inhibited TNFalpha generation in a concentration-dependent manner. In aged monocytes, rolipram, Org 9935 (a PDE3 inhibitor), and prostaglandin E2 inhibited TNFalpha generation in a concentrationdependent manner and interacted additively with BRL 50481. BRL 50481 is

the first fully documented PDE7 inhibitor that has acceptable selectivity for in vitro studies. Furthermore, although BRL 50481 had only a modest inhibitory effect per se on the proinflammatory cells studied, it acted at least additively with other cAMP-elevating drugs, especially when HSPDE7A1 was up-regulated.

=> d his

(FILE 'HOME' ENTERED AT 11:55:45 ON 31 MAR 2006)

FILE 'MEDLINE, HCAPLUS, BIOSIS' ENTERED AT 11:56:04 ON 31 MAR 2006

L1 11 S (PHOSPHODIESTERASE 7 OR PDE 7) AND DNA

L2 10 DUP REM L1 (1 DUPLICATE REMOVED)

L3 7 S L2 AND HUMAN

=> log y COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	21.18	21.39
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-3.00	-3.00

STN INTERNATIONAL LOGOFF AT 11:59:00 ON 31 MAR 2006

WEST Search History

Hide Items Restore Clear Cancel

DATE: Friday, March 31, 2006

Hide?	Set Name	Query	Hit Count
	DB=PGPB, US	SPT, USOC, EPAB, JPAB, DWPI; PLUR =	YES; OP=ADJ
	L8	L7 and l6	28
	L 7	435/196.ccls.	1352
	L6	L5 and human	67
	L5	PDE isozyme and dna	67
	L4	PDE isozyme	322
	L3	PDE 7 isozyme	1
	DB=USPT; PA	LUR=YES; OP=ADJ	
	L2	PDE7 isozyme	0
	L1	5527896	15

END OF SEARCH HISTORY

Hit List

First HitClear Generate Collection Print Fwd Refs Bkwd Refs Generate OACS

Search Results - Record(s) 1 through 10 of 28 returned.

☐ 1. Document ID: US 20050196833 A1

Using default format because multiple data bases are involved.

L8: Entry 1 of 28

File: PGPB

Sep 8, 2005

PGPUB-DOCUMENT-NUMBER: 20050196833

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050196833 A1

TITLE: Cyclic GMP-binding, cyclic GMP-specific phosphodiesterase materials and methods

PUBLICATION-DATE: September 8, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
	0111	011111	COOMINI
Beavo, Joseph A.	Seattle	WA	US
Corbin, Jackie D.	Nashville	TN	US
Ferguson, Kenneth M.	Bothell	AW	US
Francis, Sharron H.	Nashville	TN	US
Kadlecek, Ann	Madison	CT	US
McAllister-Lucas, Linda M.	Ann Arbor	MI	US
Loughney, Kate	Seattle	WA	US
Sonnenburg, William K.	Spring	TX	US
Thomas, Melissa K.	Boston	MA	US

US-CL-CURRENT: 435/69.1; 435/196, 435/320.1, 435/325, 514/252.16, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KVMC	Drawi Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	------------	-------

☐ 2. Document ID: US 20050142127 A1

L8: Entry 2 of 28

File: PGPB

Jun 30, 2005

PGPUB-DOCUMENT-NUMBER: 20050142127

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050142127 A1

TITLE: Isolated https://doi.org/10.1016/journal.com/ phosphodiesterase proteins, nucleic acid molecules encoding human">human phosphodiesterase proteins acid molecules encoding human">human phosphodiesterase proteins acid molecules encoding human">human phosphodiesterase proteins acid molecules encoding human">https://doi.org//>human phosphodiesterase proteins acid molecules encoding the statement of the statem

phosphodiesterase proteins, and uses thereof

PUBLICATION-DATE: June 30, 2005

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY
Wei, Ming-Hui Germantown MD US

http://westbrs:9000/bin/gate.exe?f=TOC&state=3icmsp.10&ref=8&dbname=PGPB,USPT,USOC,EPAB,JP... 3/31/06

Wang, Xin Bethesda MD US Merkulov, Gennady V. Baltimore MD US Di Francesco, Valentina Rockville MD US US Beasley, Ellen M. Darnestown MD

US-CL-CURRENT: 424/94.6; 435/196, 435/320.1, 435/325, 435/6, 435/69.1, 514/252.16, 530/388.26, 536/23.2, 800/8

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWC Draw Desc Image

☐ 3. Document ID: US 20050048525 A1

L8: Entry 3 of 28

File: PGPB Mar 3, 2005

PGPUB-DOCUMENT-NUMBER: 20050048525

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050048525 A1

TITLE: Phosphodiesterase enzymes

PUBLICATION-DATE: March 3, 2005

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Fidock, Mark D. Sandwich GB

US-CL-CURRENT: 435/6; 435/196, 435/320.1, 435/325, 435/69.1, 536/23.2

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw. Desc Image

☐ 4. Document ID: US 20040137508 A1

L8: Entry 4 of 28 File: PGPB Jul 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040137508

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040137508 A1

TITLE: Enzyme PDE XVI

PUBLICATION-DATE: July 15, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Fidock, Mark D. Sandwich GB

US-CL-CURRENT: <u>435/6</u>; <u>435/196</u>, <u>435/320.1</u>, <u>435/325</u>, <u>435/69.1</u>, <u>435/7.1</u>, 536/23.2

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWC Draw Desc Image

. 🔲 5. Document ID: US 20040073020 A1

L8: Entry 5 of 28 File: PGPB Apr 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040073020

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040073020 A1

TITLE: Novel human phosphodiesterase IV isozymes

PUBLICATION-DATE: April 15, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Fisher, Douglas A. Mystic CT US
Robbins, Michael D. East Lyme CT US

US-CL-CURRENT: 536/23.2; 435/196, 435/320.1, 435/325, 435/6, 435/69.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image

☐ 6. Document ID: US 20040073019 A1

L8: Entry 6 of 28 File: PGPB Apr 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040073019

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040073019 A1

TITLE: Novel human phosphodiesterase IV isozymes

PUBLICATION-DATE: April 15, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Fisher, Douglas A. Mystic CT US Robbins, Michael D. East Lyme CT US

US-CL-CURRENT: <u>536/23.2</u>; <u>435/196</u>, <u>435/320.1</u>, <u>435/325</u>, <u>435/6</u>, <u>435/69.1</u>

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
 							· · · · · · · · · · · · · · · · · · ·						

☐ 7. Document ID: US 20040038208 A1

L8: Entry 7 of 28 File: PGPB Feb 26, 2004

PGPUB-DOCUMENT-NUMBER: 20040038208

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040038208 A1

TITLE: Novel human phosphodiesterase IV isozymes

PUBLICATION-DATE: February 26, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Fisher, Douglas A. New York NY US Robbins, Michael D. New York NY US

US-CL-CURRENT: 435/6; 435/196, 435/320.1, 435/325, 435/69.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draws Desc	Image

☐ 8. Document ID: US 20020151024 A1

L8: Entry 8 of 28 File: PGPB Oct 17, 2002

PGPUB-DOCUMENT-NUMBER: 20020151024

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020151024 A1

TITLE: DNA encoding mammalian phosphodiesterases

PUBLICATION-DATE: October 17, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY Beavo, Joseph A. Seattle WA US Bentley, J. Kelley Seattle WA US Charbonneau, Harry West Lafayette IN US Sonnenburg, William K. Mountlake Terrace WA US

US-CL-CURRENT: 435/196; 435/320.1, 435/325, 435/69.1, 536/23.2

☐ 9. Document ID: US 20020086810 A1

L8: Entry 9 of 28 File: PGPB Jul 4, 2002

PGPUB-DOCUMENT-NUMBER: 20020086810

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020086810 A1

TITLE: Isolated https://www.nucleic.acid.molecules.com/ encoding https://www.nucleic.aci

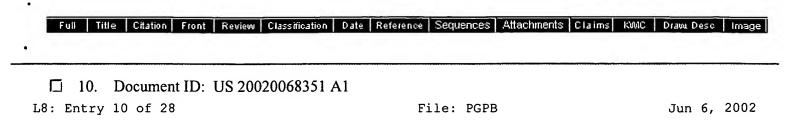
phosphodiesterase proteins, and uses thereof

PUBLICATION-DATE: July 4, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY Guegler, Karl Menlo Park CA US Brandon, Rhonda C. Laytonsville MD US Di Francesco, Valentina Rockville MD US Beasley, Ellen M. Darnestown MD US

US-CL-CURRENT: 514/1; 435/196, 435/325, 435/6, 435/69.1, 435/7.1, 536/23.2, 800/8



PGPUB-DOCUMENT-NUMBER: 20020068351

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020068351 A1

TITLE: Human brain phosphodiesterase

PUBLICATION-DATE: June 6, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Livi, George P.	Havertown	PA	US
McLaughlin, Megan M.	Drexel Hill	PA	US
Torphy, Theodore J.	Bryn Mawr	PA	US

US-CL-CURRENT: $\underline{435}/\underline{196}$; $\underline{435}/\underline{320.1}$, $\underline{435}/\underline{325}$, $\underline{435}/\underline{69.1}$, $\underline{435}/\underline{7.92}$, $\underline{536}/\underline{23.2}$

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawu Desc
	·				. 1					1 = 3		
	Clear	G	enerat	e Collec	tion	Print	Fwd R	ets	Bkwd Refs	G	ienerat	te OACS
							Doc	uments				
	Ter	แร					IIDOC	umencs				

Display Format: - Change Format

<u>Previous Page</u> <u>Next Page</u> <u>Go to Doc#</u>

Hit List

First HitClear **Generate Collection** Print Fwd Refs **Bkwd Refs** Generate OACS

Search Results - Record(s) 1 through 10 of 15 returned.

☐ 1. Document ID: US 6914133 B2

L1: Entry 1 of 15

File: USPT

Jul 5, 2005

US-PAT-NO: 6914133

DOCUMENT-IDENTIFIER: US 6914133 B2

TITLE: Human phosphodiesterase IV isozymes

DATE-ISSUED: July 5, 2005

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Fisher; Douglas A.

Mystic

CT

Robbins; Michael D.

East Lyme

CT

US-CL-CURRENT: <u>536/23.1</u>; <u>435/6</u>, <u>536/24.3</u>, <u>536/24.31</u>, <u>536/24.32</u>, <u>536/24.33</u>

Full Title Citation Front Review Classification Date Reference

☐ 2. Document ID: US 6838559 B2

L1: Entry 2 of 15

File: USPT

Jan 4, 2005

US-PAT-NO: 6838559

DOCUMENT-IDENTIFIER: US 6838559 B2

TITLE: Purine inhibitors of phosphodiesterase (PDE) 7

DATE-ISSUED: January 4, 2005

INVENTOR-INFORMATION:

ZIP CODE NAME CITY STATE COUNTRY

Vaccaro; Wayne Yardley PA Princeton Roberge; Jacques Y. NJ Leftheris; Katerina Skillman NJ Pitts; William J. Newtown PA Barbosa; Joseph Lambertville NJ

US-CL-CURRENT: <u>540/575</u>; <u>544/118</u>, <u>544/276</u>, <u>544/277</u>

Full Title Citation Front Review Classification Date Reference Schools Reference Claims KMC Draw Desc Image

. \(\subseteq\) 3. Document ID: US 6812239 B2

L1: Entry 3 of 15 File: USPT Nov 2, 2004

US-PAT-NO: 6812239

DOCUMENT-IDENTIFIER: US 6812239 B2

TITLE: Method of identification of inhibitors of PDE1C and methods of treatment of diabetes

DATE-ISSUED: November 2, 2004

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Michaeli; Tamar H. Bronx NY

US-CL-CURRENT: <u>514/359</u>; <u>514/866</u>

Full Title Citation Front Review Classification Date Reference Seguences Attachments Claims KWC Draw Desc	mage
---	------

☐ 4. Document ID: US 6479493 B1

L1: Entry 4 of 15 File: USPT Nov 12, 2002

US-PAT-NO: 6479493

DOCUMENT-IDENTIFIER: US 6479493 B1

TITLE: Methods for treatment of type I diabetes

DATE-ISSUED: November 12, 2002

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Whitehead; Clark M. Warminster PA
Earle; Keith A. North Wales PA
Alila; Hector W. North Wales PA
Thompson; W. Joseph Doylestown PA

US-CL-CURRENT: 514/241; 514/252.1, 514/255.06, 514/307, 514/311, 514/357, 514/365, 514/381, 514/384, 514/400, 514/406, 514/419, 514/437, 514/461, 514/866

<u>514/394</u>, <u>514/400</u>, <u>514/406</u>, <u>514/419</u>, <u>514/427</u>, <u>514/461</u>, <u>514/866</u>

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw Desc Image

☐ 5. Document ID: US 6417208 B1

L1: Entry 5 of 15 File: USPT Jul 9, 2002

US-PAT-NO: 6417208

DOCUMENT-IDENTIFIER: US 6417208 B1

TITLE: Method of identification of inhibitors of PDE1C

DATE-ISSUED: July 9, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE COUNTRY

Michaeli; Tamar H.

Bronx

NY

US-CL-CURRENT: <u>514/359</u>; <u>435/14</u>, <u>435/196</u>, <u>435/199</u>, <u>435/252.3</u>, <u>435/325</u>, <u>435/354</u>, 435/372.2, <u>435/377</u>, 435/6, 435/7.71, 514/866

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw Desc Image

☐ 6. Document ID: US 6323041 B1

L1: Entry 6 of 15

File: USPT

Nov 27, 2001

US-PAT-NO: 6323041

DOCUMENT-IDENTIFIER: US 6323041 B1

TITLE: Screening novel human phosphodiesterase IV isozymes for compounds which modify their

enzymatic activity

DATE-ISSUED: November 27, 2001

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Fisher; Douglas A.

New York

NY

Robbins; Michael D.

New York

NY

US-CL-CURRENT: $\underline{436}/\underline{501}$; $\underline{435}/\underline{183}$, $\underline{435}/\underline{19}$, $\underline{435}/\underline{196}$, $\underline{435}/\underline{4}$, $\underline{435}/\underline{455}$, $\underline{435}/\underline{7.1}$, $\underline{536}/\underline{23.1}$, $\underline{536}/\underline{23.2}$

Full Title Citation Front Review Classification Date Reference Seguences Attachments Claims KWC Draw Desc Image

☐ 7. Document ID: US 6242211 B1

L1: Entry 7 of 15

File: USPT

Jun 5, 2001

US-PAT-NO: 6242211

DOCUMENT-IDENTIFIER: US 6242211 B1

TITLE: Methods for generating and screening novel metabolic pathways

DATE-ISSUED: June 5, 2001

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Peterson; Todd C.

Coronado

CA

Brian; Paul

San Diego

CA

US-CL-CURRENT: $\underline{435}/\underline{41}$; $\underline{435}/\underline{320.1}$, $\underline{435}/\underline{463}$, $\underline{435}/\underline{468}$, $\underline{435}/\underline{477}$, $\underline{435}/\underline{91.41}$, $\underline{435}/\underline{91.52}$, $\underline{536}/\underline{23.5}$,

536/23.7

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWIC Draw Desc Image

☐ 8. Document ID: US 6146876 A

L1: Entry 8 of 15 File: USPT Nov 14, 2000

US-PAT-NO: 6146876

DOCUMENT-IDENTIFIER: US 6146876 A

** See image for Certificate of Correction **

TITLE: 22025, a novel human cyclic nucleotide phosphodiesterase

DATE-ISSUED: November 14, 2000

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Robision; Keith E. Wilmington MA
Kapeller-Libermann; Rosana Chestnut Hill MA
White; David Holbrook MA

US-CL-CURRENT: 435/243; 435/252.3, 435/320.1, 536/23.2, 536/23.5, 536/24.31

Full | Title | Citation | Front | Review | Classification | Date | Reference | Secuences | Attachments | Claims | KWIC | Draw Desc | Image |

☐ 9. Document ID: US 6100025 A

L1: Entry 9 of 15 File: USPT Aug 8, 2000

US-PAT-NO: 6100025

DOCUMENT-IDENTIFIER: US 6100025 A

** See image for <u>Certificate of Correction</u> **

TITLE: Cloning by complementation and related processes

DATE-ISSUED: August 8, 2000

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Wigler; Michael H. Lloyd Harbor NY Colicelli; John J. Los Angeles CA

US-CL-CURRENT: $\underline{435/6}$; $\underline{435/174}$, $\underline{435/252.3}$, $\underline{435/320.1}$, $\underline{435/91.2}$, $\underline{536/23.1}$, $\underline{536/24.3}$, $\underline{536/24.3}$

Full Title Citation Front Review Classification Date Reference Securities Attachments Claims KMC Draw Desc Image

☐ 10. Document ID: US 6069240 A

L1: Entry 10 of 15 File: USPT May 30, 2000

US-PAT-NO: 6069240

DOCUMENT-IDENTIFIER: US 6069240 A

** See image for Certificate of Correction **

TITLE: Cloning by complementation and related processes